



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | |
|---|-------------|--------------------------|------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | Complete if Known | |
| | | Application Number | 09/682,249 |
| | | Filing Date | 08/09/2001 |
| | | First Named Inventor | GRUNE, GUERRY L. |
| | | Art Unit | 1616 |
| | | Examiner Name | Marina Lamm |
| Attorney Docket Number | 01 SNBLK 01 | | |
| Sheet | 1 | of | 3 |

| U. S. PATENT DOCUMENTS | | | | | |
|------------------------|-----------------------|--|--------------------------------|---|---|
| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number-Kind Code ² (if known) | | | |
| Ull | 1 | US- 5,824,659 B1 | 10-20-1998 | Univ. Of Texas | All |
| | 2 | US- 5,028,417 B1 | 07-02-1991 | Johnson & Johnson | All |
| | 3 | US- 5,340,567 B1 | 08-23-1994 | Johnson & Johnson | All |
| | 4 | US- 5,188,831 B1 | 02-23-1993 | Cheesebrough-Pond's | All |
| | 5 | US- 5,498,406 B1 | 03-12-1996 | Malcom Neam | All |
| | 6 | US- 6,099,825 B1 | 08-08-2000 | Schering-Plough | All |
| | 7 | US- 6,042,813 B1 | 03-28-2000 | Schering-Plough | All |
| | 8 | US- 6,048,517 B1 | 04-11-2000 | Schering-Plough | All |
| | 9 | US- 5,770,183 B1 | 06-23-1998 | Francisco J. Linares | All |
| | 10 | US- 5,492,690 B1 | 02-20-1996 | Procter & Gamble | All |
| | 11 | US- 5,747,010 B1 | 05-05-1998 | Johnson & Johnson | All |
| | 12 | US- 5,914,102 B1 | 06-22-1999 | Schering-Plough | All |
| | 13 | US- 5,916,542 B1 | 06-29-1999 | Antonio Fossati | All |
| | 14 | US- 5,945,090 B1 | 08-31-1999 | Randall Products Int | All |
| | 15 | US- 5,980,871 B1 | 11-09-1999 | Johnson & Johnson | All |
| | 16 | US- 5,547,659 B1 | 08-20-1996 | Richardson-Vicks Inc | All |
| | 17 | US- 6,284,234 B1 | 09-04-2001 | Johnson & Johnson | All |
| | 18 | US- 5,552,135 B1 | 09-03-1996 | Estee Lauder | All |
| Ull | 19 | US- 5,356,811 B1 | 10-18-1994 | Coats | All |

no date/
patented
no copy

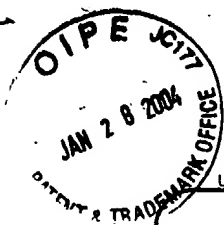
| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-----------------------|---|--------------------------------|---|---|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T ⁶ |
| | | Country Code ³ Number ⁴ Kind Code ⁵ (if known) | | | | |
| | 1 | JP-161,881 | | | All | |
| Ull | 2 | DE-3642794 | 06-19-1987 | Kao Corp. | All | |
| | 3 | WO-06103 | 06-14-1990 | The Bunn Company | All | |
| | 4 | EP-535372 A1 | 04-07-1993 | Siemens | All | |
| | 5 | EP-619999 A2 | 10-19-1994 | Tioxide Specialities Ltd | All | |
| Ull | 6 | EP-628303 A1 | 12-14-1994 | Tioxide Specialities Ltd | All | |

| | | | |
|--------------------|--|-----------------|---------|
| Examiner Signature | | Date Considered | 3/21/04 |
|--------------------|--|-----------------|---------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P. . Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

| | |
|------------------------|------------------|
| Application Number | 09/682,249 |
| Filing Date | 08/09/2001 |
| First Named Inventor | GRUNE, GUERRY L. |
| Art Unit | 1616 |
| Examiner Name | Marina Lamm |
| Attorney Docket Number | 01 SNELK 01 |

Sheet 2 of 3**U. S. PATENT DOCUMENTS**

| Examiner Initials ¹ | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------------------|-----------------------|--|--------------------------------|--|---|
| | | Number-Kind Code ² (if known) | | | |
| u | 20 | US- 6,083,508 | 07-04-2000 | Avalos | All |
| | 21 | US- 5,565,591 | 10-15-1996 | SunSmart | All |
| | 22 | US- 5,573,754 | 11-12-1996 | Richardson-Vicks | All |
| | 23 | US- 5,573,755 | 11-12-1996 | Chesebrough-Pond's | All |
| | 24 | US- 5,622,690 | 04-22-1997 | Nurture | All |
| | 25 | US- 5,643,554 | 10-15-1996 | Dusa Pharmaceuticals | All |
| | 26 | US- 5,733,531 | 03-31-1998 | SunSmart | All |
| | 27 | US- 5,741,924 | 04-21-1998 | Biophysics | All |
| | 28 | US- 5,747,011 | 05-05-1998 | Schering-Plough Healthcare | All |
| u | 29 | US- 5,914,102 | 06-22-1999 | Schering-Plough Healthcare | All |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initials ¹ | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T ⁴ |
|--------------------------------|-----------------------|---|--------------------------------|--|--|----------------|
| | | Country Code ² Number ³ Kind Code ⁴ (if known) | | | | |
| u | 7 | WO-1993/11742 | 06-24-1993 | The Boots Company | All | |
| u | 8 | WO-1999/11236 | 03-11-1999 | Bannica (Germans) | All | |
| u | 9 | EP-0834301 A1 | 04-08-1998 | Boehringer Ingelheim Ltd. | All | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Examiner
SignatureDate
Considered

5/21/04

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ²Applicant's unique citation designation number (optional). ³See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ⁴Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁷Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/088 (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | |
|---|-------------|--------------------------|------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | Complete if Known | |
| | | Application Number | 09/682,249 |
| | | Filing Date | 08/09/2001 |
| | | First Named Inventor | GRUNE, GUERRY L. |
| | | Art Unit | 1616 |
| Examiner Name | Marina Lamn | | |
| Sheet 3 | of 3 | Attorney Docket Number | 015NBLR/01 |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| ull | 1 | MARGARET SCHLUMPH, "In Vitro and in Vivo Estrogenicity of UV Screens", Environmental Health Perspectives, Vol. 109, No. 3, March 2001 | |
| ull | 2 | MICHAEL WARHURST, "Introduction to Hormone Disrupting Chemicals" at < http://website.lineone.net/%7Emwarhurst >, 10/03/2001, Internet | |
| no author no title | | 3 Article published in DCI in September 1992 by Tioxide Specialities Ltd. | |
| | | 4 Article published in Cosmetics and Toiletries, Vol 107, October 1992 | |
| ull | 5 | Tioxide Co. Brochure published in March 15, 1994 found at: http://www.psrc.usm.edu/macrog/coatings/tio2.htm as of 10/11/2001 | |
| ull | 6 | MARGARET SCHLUMPH, "Estrogen Active UV Screens", SOFW-Journal, Vol: 127, 01/07/2001 | |
| ull | 7 | MARC S. REISCH, "Spotlight on Sunscreens", C & EN, 12/03/2001 | |
| ull | 8 | Environmental Protection Agency Endocrine Disruptor Screening Program report to Congress, August 2000, Internet: http://epa.gov/scipoly/oscpendo/index.htm , 08/07/2002 | |
| no author no title | | 9 http://www.nihs.go.jp/hse/environ/illiepatable/htm, 08/06/2002 | |
| | | 10 http://europa.eu.int/comm/footfs/sc/scdp/out145_en.html, 10/03/2001 | |

| | | | |
|--------------------|--|-----------------|---------|
| Examiner Signature | | Date Considered | 3/21/04 |
|--------------------|--|-----------------|---------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.